EtherXtend SHDSL Ethernet Access Device

ETHX-2111-SHDSL, ETHX-2112-SHDSL, ETHX-2122-SHDSL

- ✓ *Full MTM functionality, including 802.1p priority and 802.1Q VLAN traffic management*
- ✓ *Available in 1-port or 2-port SHDSL.bis configurations, supporting up to 5.7 Mbps on a single copper pair; up to 11.4 Mbps on a pair of bonded loops*
- ✓ *Automatic load balancing on bonded ports for optimum throughput and redundancy (on 2-port model only)*
- ✓ *Automatic failure recovery allows dropped lines to retrain and then re-enter a bonded group automatically*
- ✓ *Can operate in back-to-back configurations and is also*

EtherXtend SHDSL Ethernet Access Device supports loop bonding up to 11.4 Mbps

- ✓ *Configuration Free/Plug & Play Default Factory Settings*
- ✓ *Enhanced Web, SNMP, and CLI management functionality*

Zhone's EtherXtend 2100 SHDSL Series of Ethernet Access Devices (EADs) allows Carriers, CLECs, ISPs and PTTs to deliver Ethernet services to their customers simply, quickly and cost-effectively over existing copper plant. Intended for deployment at end-users' locations, these devices allow delivery of Ethernet services using the latest in SHDSL.bis transport protocols.

The EtherXtend 2100 Series of EADs represent the next generation of simple, configuration-free, plug & play Ethernet over Copper Network Extenders available from Zhone Technologies. By employing Zhone's pre-standards based, Net-to-Net (N2N) Overlay protocol, these units continue to build on the simplicity and popularity of Zhone's SHDSL Network Extenders (SNE) family of products, while extending the data rates available to a full 5.7Mbps per pair, in compliance with the ITU-T G.991.2 SHDSL.bis standards.

The EtherXtend 2100 Series of EADs are available in 1-port and 2-port configurations. The 2-port unit supports loop bonding, and enables transmission rates of up to 11.4 Mbps over two copper pairs. As with all of Zhone's EtherXtend EAD product family, the ETHX-21xx-SHDSL products share some common attributes - enhanced performance in a streamlined, low-cost architecture, designed for ease-of-use, rapid deployments, and low-density applications.

The EtherXtend 2100 SHDSL products can interoperate with each other in a point-to-point (i.e. book-ended) configuration. Where several of these devices must home on a common central office (CO) location, CO aggregation can be achieved using the ESIM5700-48 line card of Zhone's IP-DSLAM (IPD) platform. Alternatively, service providers can use Zhone's Single Line Multi-Service (SLMS) family of products (e.g. MALC or ETHX-3300/3400 Series EADs) as aggregation devices for the ETHX-21xx EADs.

What differentiates Zhone's EtherXtend 21xx EADs from competing vendors' offerings is the simplicity and efficiency with which Ethernet services can be deployed over bonded loops with a minimum of fuss and/or operational complexity - only made possible by the automatic, configuration-free, "plug & play" operation of Zhone's EtherXtend SHDSL product line. While most customers value the simplicity of a configuration-free device, the EtherXtend 2100 Series EADs have been recently upgraded to allow IP based management schemes, with the addition of an integrated DHCP client and enhanced OAM functionality (via WEB GUI, SNMP, and CLI interfaces).

ZHONE
Bandwidth Changes Everything™

DATASHEET

EtherXtend SHDSL Ethernet Access Device

Technical Specifications

Dimensions

- 1.4 in H x 8.4 in W x 5.0 in D
- 3.7 cm Hx 21.4 cm Wx 12.7 cm D

Weight

- 1.0 lbs (0.45 kg)

Power

- 100-125VAC @ 0.15A
- 200-240VAC @ 0.075A

Interfaces

- Single-port Unit (ETHX-2111-SHDSL)
  - 1 x SHDSL Hybrid RJ11/RJ45 (TC-PAM)
  - 1 x 10/100 Ethernet RJ45
- Single-port Unit (ETHX-2112-SHDSL)
  - 1 x SHDSL Hybrid RJ11/RJ45 (TC-PAM)
  - 2 x 10/100 Ethernet RJ45
- Dual-port Unit (ETHX-2122-SHDSL)
  - 2 x SHDSL Hybrid RJ11/RJ45 (TC-PAM)
  - 2 x 10/100 Ethernet RJ45

Standards Support

- ITU G.991.2 G.SHDSL
- IEEE 802.3 Ethernet
- IEEE 802.1p Priority and QoS
- IEEE 802.1Q VLAN with Q-in-Q

Protocol Support

- Transparent 802.1D Bridging
- DHCP Client

Bandwidth/Distance

- Up to 5.7 Mbps per SHDSL port
- Up to 11.4 Mbps over two, loop-bonded ports (using two pairs)

Regulatory Compliance

- EMC: FCC Part 15; CSA/C108.8; EN55022; EN55024
- Safety: UL1950, CSA C22.2 No. 950; EN60950
- Telecom: FCC Part 68, CE Mark, Telenor OA107

Operating Requirements

- Operating: 32ºF to 122ºF (0ºC to 50ºC)
- Storage: -40ºF to 158ºF (-40ºC to 70ºC)
- Humidity: 5% to 95%, non-condensing
- Altitude: -200 ft to 16,500 ft (-60 m to 5,000 m)

Ordering Information

EtherXtend 21xx SHDSL - PROVIDER Units

ETHX-2111-SHDSL-P-EU	EtherXtend EAD, N2N, 1PRT SHDSL.BIS WAN, 1PRT 10/100BT LAN, Provider, AC Power w/EU Plug
ETHX-2111-SHDSL-P-UK	EtherXtend EAD, N2N, 1PRT SHDSL.BIS WAN, 1PRT 10/100BT LAN, Provider, AC Power w/UK Plug
ETHX-2111-SHDSL-P-US	EtherXtend EAD, N2N, 1PRT SHDSL.BIS WAN, 1PRT 10/100BT LAN, Provider, AC Power w/US Plug
ETHX-2112-SHDSL-P-EU	EtherXtend EAD, N2N, 1PRT SHDSL.BIS WAN, 2PRT 10/100BT LAN, Provider, AC Power w/EU Plug
ETHX-2112-SHDSL-P-UK	EtherXtend EAD, N2N, 1PRT SHDSL.BIS WAN, 2PRT 10/100BT LAN, Provider, AC Power w/UK Plug
ETHX-2112-SHDSL-P-US	EtherXtend EAD, N2N, 1PRT SHDSL.BIS WAN, 2PRT 10/100BT LAN, Provider, AC Power w/US Plug
ETHX-2122-SHDSL-P-EU	EtherXtend EAD, N2N, 2PRT SHDSL.BIS WAN, 2PRT 10/100BT LAN, Provider, AC Power w/EU Plug
ETHX-2122-SHDSL-P-UK	EtherXtend EAD, N2N, 2PRT SHDSL.BIS WAN, 2PRT 10/100BT LAN, Provider, AC Power w/UK Plug
ETHX-2122-SHDSL-P-US	EtherXtend EAD, N2N, 2PRT SHDSL.BIS WAN, 2PRT 10/100BT LAN, Provider, AC Power w/US Plug

EtherXtend 21xx SHDSL - SUBSCRIBER Units

ETHX-2111-SHDSL-S-EU	EtherXtend EAD, N2N, 1PRT SHDSL.BIS WAN, 1PRT 10/100BT LAN, Subscriber, AC Power w/EU Plug
ETHX-2111-SHDSL-S-UK	EtherXtend EAD, N2N, 1PRT SHDSL.BIS WAN, 1PRT 10/100BT LAN, Subscriber, AC Power w/UK Plug
ETHX-2111-SHDSL-S-US	EtherXtend EAD, N2N, 1PRT SHDSL.BIS WAN, 1PRT 10/100BT LAN, Subscriber, AC Power w/US Plug
ETHX-2112-SHDSL-S-EU	EtherXtend EAD, N2N, 1PRT SHDSL.BIS WAN, 2PRT 10/100BT LAN, Subscriber, AC Power w/EU Plug
ETHX-2112-SHDSL-S-UK	EtherXtend EAD, N2N, 1PRT SHDSL.BIS WAN, 2PRT 10/100BT LAN, Subscriber, AC Power w/UK Plug
ETHX-2112-SHDSL-S-US	EtherXtend EAD, N2N, 1PRT SHDSL.BIS WAN, 2PRT 10/100BT LAN, Subscriber, AC Power w/US Plug
ETHX-2122-SHDSL-S-EU	EtherXtend EAD, N2N, 2PRT SHDSL.BIS WAN, 2PRT 10/100BT LAN, Subscriber, AC Power w/EU Plug
ETHX-2122-SHDSL-S-UK	EtherXtend EAD, N2N, 2PRT SHDSL.BIS WAN, 2PRT 10/100BT LAN, Subscriber, AC Power w/UK Plug
ETHX-2122-SHDSL-S-US	EtherXtend EAD, N2N, 2PRT SHDSL.BIS WAN, 2PRT 10/100BT LAN, Subscriber, AC Power w/US Plug

Optional 19/23-inch Rack Mount Kit

NETEXT-RMT-KIT	Net Ext, Rack Mount Tray, TNE15X4/ENE20X4, ETHX22X4/ETHX21XX, SNE2040G

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